5040

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: _10/520,679_
Source: _PCT/10_
Date Processed by STIC: _1/18/05_

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PCT

RAW SEQUENCE LISTING   DATE: 01/18/2005
PATENT APPLICATION: US/10/520,679   TIME: 15:00:55

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\01182005\J520679.raw

```
   3 <110> APPLICANT: Pohlner, Johannes
   4         Von Der Kammer, Heinz
   6 <120> TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC USE OF A RAB FAMILY
   7         GTP-BINDING PROTEIN FOR NEURODEGENERATIVE DISEASES
   9 <130> FILE REFERENCE: 2335.0030001
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/520,679
C--> 11 <141> CURRENT FILING DATE: 2005-01-11
  11 <150> PRIOR APPLICATION NUMBER: PCT/EP2003/007361
  12 <151> PRIOR FILING DATE: 2003-07-09
  14 <150> PRIOR APPLICATION NUMBER: EP 02015429.0
  15 <151> PRIOR FILING DATE: 2002-07-11
  17 <150> PRIOR APPLICATION NUMBER: 60/394,870
  18 <151> PRIOR FILING DATE: 2002-07-11
  20 <160> NUMBER OF SEQ ID NOS: 15
  22 <170> SOFTWARE: PatentIn Ver. 2.1
  24 <210> SEQ ID NO: 1
  25 <211> LENGTH: 194
  26 <212> TYPE: PRT
  27 <213> ORGANISM: Homo sapiens
  29 <400> SEQUENCE: 1
  30 Met Ala Ile Arg Glu Leu Lys Val Cys Leu Leu Gly Asp Thr Gly Val
  31  1               5                  10                  15
  33 Gly Lys Ser Ser Ile Val Cys Arg Phe Val Gln Asp His Phe Asp His
  34             20                  25                  30
  36 Asn Ile Ser Pro Thr Ile Gly Ala Ser Phe Met Thr Lys Thr Val Pro
  37          35                  40                  45
  39 Cys Gly Asn Glu Leu His Lys Phe Leu Ile Trp Asp Thr Ala Gly Gln
  40       50                  55                  60
  42 Glu Arg Phe His Ser Leu Ala Pro Met Tyr Tyr Arg Gly Ser Ala Ala
  43 65                  70                  75                  80
  45 Ala Val Ile Val Tyr Asp Ile Thr Lys Gln Asp Ser Phe Tyr Thr Leu
  46                   85                  90                  95
  48 Lys Lys Trp Val Lys Glu Leu Lys Glu His Gly Pro Glu Asn Ile Val
  49             100                 105                 110
  51 Met Ala Ile Ala Gly Asn Lys Cys Asp Leu Ser Asp Ile Arg Glu Val
  52          115                 120                 125
  54 Pro Leu Lys Asp Ala Lys Glu Tyr Ala Glu Ser Ile Gly Ala Ile Val
  55       130                 135                 140
  57 Val Glu Thr Ser Ala Lys Asn Ala Ile Asn Ile Glu Glu Leu Phe Gln
  58 145                 150                 155                 160
  60 Gly Ile Ser Arg Gln Ile Pro Pro Leu Asp Pro His Glu Asn Gly Asn
  61                   165                 170                 175
  63 Asn Gly Thr Ile Lys Val Glu Lys Pro Thr Met Gln Ala Ser Arg Arg
```

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64            180            185            190
66 Cys Cys
70 <210> SEQ ID NO: 2
71 <211> LENGTH: 585
72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: Description of Artificial Sequence: complete cDNA
77      of RAB 31 gene
79 <400> SEQUENCE: 2
80 atggcgatac gggagctcaa agtgtgcctt ctcggggaca ctggggttgg gaaatcaagc 60
81 atcgtgtgtc gatttgtcca ggatcacttt gaccacaaca tcagccctac tattggggca 120
82 tcttttatga ccaaaactgt gccttgtgga aatgaacttc acaagttcct catctgggac 180
83 actgctggtc aggaacggtt tcattcattg gctcccatgt actatcgagg ctcagctgca 240
84 gctgttatcg tgtatgatat taccaagcag gattcatttt taccttgaa gaaatgggtc 300
85 aaggagctga agaacatgg tccagaaaac attgtaatgg ccatcgctgg aaacaagtgc 360
86 gacctctcag atattaggga ggttcccctg aaggatgcta aggaatacgc tgaatccata 420
87 ggtgccatcg tggttgagac aagtgcaaaa aatgctatta atatcgaaga gctctttcaa 480
88 ggaatcagcc gccagatccc acccttggac ccccatgaaa atggaaacaa tggaacaatc 540
89 aaagttgaga agccaaccat gcaagccagc cgccggtgct gttga            585
92 <210> SEQ ID NO: 3
93 <211> LENGTH: 212
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Description of Artificial Sequence: cDNA fragment
99      of RAB31 gene
101 <400> SEQUENCE: 3
102 accgtggacc acggcccttg ggtcaacagc accggcggct ggcttgcatg gttggcttct 60
103 caactttgat tgttccattg tttccacttt catggggtc caagggtggg atctggcggc 120
104 tgattccttg aaagagctct cgatattaa tagcatttt tgcacttgtc tcaaccacga 180
105 tggcacctat ggattcagcg tattccttag ca                        212
108 <210> SEQ ID NO: 4
109 <211> LENGTH: 20
110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for
115      RAB31 gene
117 <400> SEQUENCE: 4
118 actgctgaag gaccctacgc                                      20
121 <210> SEQ ID NO: 5
122 <211> LENGTH: 20
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for
128      RAB31 gene
130 <400> SEQUENCE: 5
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PATENT APPLICATION: **US/10/520,679**   TIME: 15:00:55

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131 gatgcaaagc cagtgtgctc                                        20
134 <210> SEQ ID NO: 6
135 <211> LENGTH: 20
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for
141       cyclophilin B gene
143 <400> SEQUENCE: 6
144 actgaagcac tacgggcctg                                        20
147 <210> SEQ ID NO: 7
148 <211> LENGTH: 19
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for
154       cyclophilin B gene
156 <400> SEQUENCE: 7
157 agccgttggt gtctttgcc                                         19
160 <210> SEQ ID NO: 8
161 <211> LENGTH: 20
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for
167       ribosomal protein S9 gene
169 <400> SEQUENCE: 8
170 ggtcaaattt accctggcca                                        20
173 <210> SEQ ID NO: 9
174 <211> LENGTH: 22
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for
180       ribosomal protein S9 gene
182 <400> SEQUENCE: 9
183 tctcatcaag cgtcagcagt tc                                     22
186 <210> SEQ ID NO: 10
187 <211> LENGTH: 19
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for
193       beta-actin gene
195 <400> SEQUENCE: 10
196 tggaacggtg aaggtgaca                                         19
199 <210> SEQ ID NO: 11
200 <211> LENGTH: 19
201 <212> TYPE: DNA
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202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for
206      beta-actin gene
208 <400> SEQUENCE: 11
209 ggcaagggac ttcctgtaa                                          19
212 <210> SEQ ID NO: 12
213 <211> LENGTH: 20
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for the
219      GAPDH gene
221 <400> SEQUENCE: 12
222 cgtcatgggt gtgaaccatg                                         20
225 <210> SEQ ID NO: 13
226 <211> LENGTH: 21
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer forthe
232      GAPDH gene
234 <400> SEQUENCE: 13
235 gctaagcagt tggtggtgca g                                       21
238 <210> SEQ ID NO: 14
239 <211> LENGTH: 21
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for the
245      transferrin receptor gene
247 <400> SEQUENCE: 14
248 gtcgctggtc agttcgtgat t                                       21
251 <210> SEQ ID NO: 15
252 <211> LENGTH: 23
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer for the
258      transferrin receptor gene
260 <400> SEQUENCE: 15
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VERIFICATION SUMMARY DATE: 01/18/2005
PATENT APPLICATION: US/10/520,679 TIME: 15:00:56

Input Set : **A:\Sequence Listing.txt**
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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date